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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/850,346	05/07/2001	Fabian Edgar Ernst	PHNL 000275	2300	
24737	7590 06/04/2004		EXAM	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			REKSTAD, ERICK J		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER	
	r		2613	5	
			DATE MAILED: 06/04/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	licant(s)				
	09/850,346	ERNST ET AL.				
Office Action Summary	Examiner	Art Unit	_			
	Erick Rekstad	2613				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and if No period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a t. a reply within the statutory minimum of the triod will apply and will expire StX (6) MC tatute, cause the application to become the	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status :						
1)⊠ Responsive to communication(s) filed on 0	77 May 2001.					
· . · · ·						
3) Since this application is in condition for allo	<u> </u>					
closed in accordance with the practice und	ler <i>Ex par</i> te Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the applica	tion.	•				
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Exar	niner.					
10) The drawing(s) filed on is/are: a)	accepted or b) ☐ objected to	by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the ∞	rrection is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attach	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) △ Acknowledgment is made of a claim for force a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☒ Copies of the certified copies of the 	nents have been received.	Application No				
application from the International Bu		Treceived in this National Stage				
* See the attached detailed Office action for a		at received				
See the dilutioned detailed office action for a	not of the confined copies fit					
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE		o(s)/Mail Date Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other: _					

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DETAILED ACTION

This is a first action for application no. 09/850346 filed on May 07, 2001 in which glaims 1-10 are presented for examination.

Specification

The disclosure is objected to because of the following informalities: There are no headings for the sections of the disclosure (Background of the Invention, Summary of the Invention, Brief Description of the Drawings, etc.).

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by "Adaptive multiple-candidate hierarchical search for block matching algorithm" to Chan Y.-L. et al. [claim 1]

As shown on page 1638 under "Proposed algorithm", Chan teaches a method of choosing an optimal candidate value to be used for matching a block from a first image wit an area from a second image, the method comprising:

Making a set of candidate values for determining an area to be matched from the second image,

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For each candidate value from the set, determining an area to be matched from the second image, based on said candidate value, matching the block from the first image with this area and calculating a matching error, and

Choosing the optimal candidate value from the set based on the calculated matching errors,

Characterized in that the steps a, b and c are repeated when, as a consequence of a change of the value of the chosen optimal candidate value, a rise of the attendant matching error satisfies a predetermined criterion (Page 1638 from Proposed algorithm to Result).

[claim 2]

Chan teaches the method of claim 1, characterized in that the predetermined criterion is a percentage of the matching error of the chosen optimal candidate value (Page 1638 Second Paragraph).

[claims 3 and 4]

Chan teaches the adjusting of the threshold in order to find the global minimum versus the prior art that tended to get such in local minimum. The threshold (GT) is increased when the mean absolute difference is high and the threshold is decreased when the mean absolute difference is low. The location with the smallest difference is designated as the central location for the next search as required by claim 4 (Page 1638, Fig. 1).

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chan as applied to claim 1-4 above, and further in view of US Patent 5,473,379 to Horne.

[claims 5-9]

Chan teaches the method of choosing an optimal candidate value to be used for matching a block from a first image with an area from a second image as shown above for claims 1-4. Chan teaches block motion estimation algorithms have been widely used in video coding standards such as H.261 and MPEG (Page 1637 "Introduction"). Chan does not teach the system or apparatus for the method of claims 1-4. Horne teaches a system and apparatus for block based motion compensation for digital video compression such as MPEG1 or MPEG2(Col 3 Lines 59-67, Col 4 Lines 1-26). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the method of Chan in the MPEG encoding system of Horne in order to provide an MPEG encoder that provides a motion estimation method that finds an optimal motion vector.

[claim 10]

Chan teaches the method of block based motion estimation for coding standards such as MPEG2. Horne teaches the system and apparatus for MPEG encoding.

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Meither Chan nor Horne teaches the apparatus connected to a display for viewing of the video. It is well known in the art to take encoded video (MPEG2) and decode the video for use on a display (Official Notice). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus of Chan and Horne with a display such as a HDTV, DVD, or VCD system connected to a Television.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick Rekstad whose telephone number is 703-305-5543. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on 703-305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Erick Rekstad & Examiner AU 2613

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(%03) 305-5543 erick.rekstad@uspto.gov

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